FeasyBeacon

FSC-BP101E Datasheet



1. Description

FeasyBeacon **FSC-BP101E** is an ultra mini size USB powered beacon. It simultaneously supports iBeacon, Eddystone (e.g. URL, UID), AltBeacon for broadcasting and provides the ability to advertise up to 10 slots of advertising frames. Transmit distance up to 450m.

With low cost and long cover range features, it's the best choice for business marketing projects with limited budget.

With the iOS & Android FeasyBeacon SDK, the developers can take advantage of the flexibility of the SDK and focus on their own application, such as Broadcast, Proximity Marketing, Digital Signage, Indoor and Outdoor Location, Asset Tracking, Vehicle Tracking, etc. Meanwhile, FeasyBeacon SDK compiled app is available to download from both the iOS and Android platform (search 'FeasyBeacon' to download).



2. Features

- USB Powered, Small Size
- Bluetooth 5.2 USB BT beacon
- Pre-programmed with Feasycom Standard Beacon Firmware
- Up to 10 slots of Advertising Frames
- Up to 450m cover range
- Configurable by Free FeasyBeacon Mobile App and SDK
- Customizable Color, Logo, Hardware, Software



3. Functional Specifications

Item	Description	
Advertising Format	Eddystone (URL/ UID), iBeacon, AltBeacon	
Configuring Method	FeasyBeacon SDK compiled app (e.g. FeasyBeacon app)	
Advertising Interval	Default 100 ms, range from 100 ms to 2000 ms	
Security	Access password required, Default Pin Code 000000	
Max Number of Broadcast	10 Slots configurable advertising frames	
Default Broadcast Interval	100 ms for iBeacon & Eddystone	
System Compatibility	iOS 9.0+, Android 4.3+	
Advertising Distance	Up to 450m (open area)	
Firmware Upgrading	OTA (upgrade firmware over the air)	

4. Product Specifications

Item	Description
Chipset	FSC1011
Bluetooth Version	Bluetooth v5.2 Dual mode
TX power	5dBm (Maximum)
Antenna	PCB Coil antenna
Power Supply	5V USB
Material	ABS plastic
Color	Black, or customized
Size	32.8x16.2x8 mm
Net weight	3.5 g
Protection	IP40
Operating temperature	-10°C to +70°C



5. Configurable Parameters

Parameters in the below table are configurable by FeasyBeacon SDK compiled app (e.g. FeasyBeacon app), feel free to download FeasyBeacon app from Google Play App Store or iOS App Store.

Parameter		Description	
Device Name		UTF-8 string, Default: FSC-BP101E-XXXXXX	
Pin Code		Access password to FSC-BP101E Default: 000000, Range: 000000 ~ 999999	
Advertising Interval		Default: 100 ms, Range: 100 ~ 2000 ms	
Tx Power		Maximum Tx power: +5 dBm Default: 5 dBm, Range: 0 ~ +5 dBm	
	URL	URL that needed to be advertised	
Eddystone-URL	RSSI at 0m	A 1-byte value representing the average received signal strength at 0m from the advertiser (FSC-BP101), range: $0 \sim -127$	
	Namespace	10-byte Namespace	
	Instance	6-byte Instance	
Eddystone-UID	Reserved	Reserved for future use	
	RSSI at 0m	A 1-byte value representing the average received signal strength at 0m from the advertiser (FSC-BP101), range: $0 \sim -127$	
	UUID	16-byte UUID, e.g. FDA50693A4E24FB1AFCFC6EB07647825	
	Major	2-byte Major, range: 0 ~ 65535	
iBeacon	Minor	2-byte Minor, range: 0 ~ 65535	
	RSSI at 1m	A 1-byte value representing the average received signal strength at 1m from the advertiser (FSC-BP101), range: $0 \sim -127$	
	ID1	Beacon Identifier 1	
	ID2	Beacon Identifier 2	
AltBeacon	ID3	Beacon Identifier 3	
	RSSI at 1m	A 1-byte value representing the average received signal strength at 1m from the advertiser (FSC-BP101E), range: 0 \sim -127	
	Manufacturer ID	The beacon device manufacturer's company identifier code	
	Manufacturer	Reserved for use by the manufacturer to implement special	
	Reserved	features	

6. Declaration

The contents of this datasheet are subject to change without prior notice for further



improvement. Feasycom team reserves all the rights for the final explanation.

iBeacon is a trademark of Apple Inc., Eddystone is a trademark of Google Inc.

Please contact Feasycom sales team or visit https://www.feasycom.com/ to get more related information if needed.

7. Contact Information

Shenzhen Feasycom Technology Co.,LTD

Address: Rm 508, Building A, Fenghuang Zhigu, No.50, Tiezai Road, Xixiang, Baoan

District, Shenzhen, 518102, China

Telephone: 86-755-23062695

Support: support@feasycom.com

Sales Service: sales@feasycom.com

Revision History

Version	Changes	Author
1.0	Initial Release	Origami
1.1	Temperature Errors	Origami
1.2	Changed the weight	Origami